

AMENDMENTS TO THE CLAIMS

The following listing of claims will replace all prior versions and listings of claims in the application.

LISTING OF CLAIMS

1.-85. (cancelled)

86. (original) A processable rubber composition comprising a cured fluorocarbon elastomer dispersed in a thermoplastic matrix, wherein the thermoplastic matrix comprises an aromatic polyamide, and wherein the cured fluorocarbon elastomer is present at a level of greater than or equal to 35% by weight based on the total weight of cured fluorocarbon elastomer and aromatic polyamide.

87. (original) A composition according to claim 86, wherein the cured fluorocarbon elastomer is present at a level of greater than or equal to 40% by weight.

88. (original) A composition according to claim 86, wherein the cured fluorocarbon elastomer comprises repeating units derived from tetrafluoroethylene and propylene.

89. (original) A composition according to claim 86, wherein the cured fluorocarbon elastomer comprises repeating units derived from vinylidene fluoride and hexafluoropropylene.

90. (original) A composition according to claim 86, wherein the cured fluorocarbon elastomer comprises repeating units derived from tetrafluoroethylene and perfluoroalkylvinyl ethers,

wherein the perfluoroalkyl vinyl ether contains 1 to 6 carbons in the perfluoroalkyl group.

91. (original) A composition according to claim 86, wherein the aromatic polyamide comprises repeating units derived from an aromatic diacid and a diamine having more than 6 carbon atoms.

92. (original) A composition according to claim 91, wherein the diamine has 7 to 20 carbon atoms.

93. (original) A composition according to claim 91, wherein the diamine has 9 to 12 carbon atoms.

94. (original) A composition according to claim 91, wherein the diamine has 9 carbon atoms.

95. (original) A composition according to claim 91, wherein the diacid is terephthalic acid.

96. (new) A processable rubber composition comprising a cured fluorocarbon elastomer dispersed in a matrix comprising a thermoplastic material,

wherein the thermoplastic material comprises a non-fluorine containing thermoplastic polymer,

wherein the cured fluorocarbon elastomer is present at a level of greater than or equal to 35% by weight based on the total weight of cured fluorocarbon elastomer and thermoplastic material, and

wherein the thermoplastic polymer comprises an amorphous polymer with a glass transition temperature greater than or equal to 150°C.

97. (new) A processable rubber composition comprising a cured fluorocarbon elastomer dispersed in a matrix comprising a thermoplastic material,

wherein the thermoplastic material comprises a non-fluorine containing thermoplastic polymer,

wherein the cured fluorocarbon elastomer is present at a level of greater than or equal to 35% by weight based on the total weight of cured fluorocarbon elastomer and thermoplastic material, and

wherein the thermoplastic polymer comprises a semi-crystalline material having a melting point greater than or equal to 150°C.

98. (new) A composition according to claim 97, wherein the fluorocarbon elastomer comprises repeating units derived from tetrafluoroethylene and propylene.

99. (new) A composition according to claim 97, wherein the thermoplastic material comprises a polyamide.

100. (new) A composition according to claim 97, wherein the thermoplastic material comprises an aromatic polyamide.

101. (new) A composition according to claim 97, wherein the thermoplastic material comprises nylon 66.

102. (new) A composition according to claim 97, wherein the thermoplastic material comprises nylon 6.

103. (new) A composition according to claim 97, wherein the thermoplastic material comprises a polyester.

104. (new) A composition according to claim 97, wherein the thermoplastic material comprises polyethylene terephthalate.

105. (new) A composition according to claim 97, wherein the thermoplastic material comprises polybutylene terephthalate.

106. (new) A composition according to claim 97, wherein the thermoplastic material comprises a polyamide block and a polyether block.

107. (new) A composition according to claim 97, wherein the thermoplastic material comprises a polyester block and a polyether block.

108. (new) A processable rubber composition comprising a cured fluorocarbon elastomer dispersed in a matrix comprising a thermoplastic material,

wherein the thermoplastic material comprises a non-fluorine containing thermoplastic polymer,

wherein the cured fluorocarbon elastomer is present at a level of greater than or equal to 35% by weight based on the total weight of cured fluorocarbon elastomer and thermoplastic material,

wherein the fluorocarbon elastomer comprises repeating units derived from vinylidene fluoride and hexafluoropropylene, and

wherein the thermoplastic polymer comprises an amorphous polymer with a glass transition temperature greater than or equal to 150°C.

109. (new) A processable rubber composition comprising a cured fluorocarbon elastomer dispersed in a matrix comprising a thermoplastic material,

wherein the thermoplastic material comprises a non-fluorine containing thermoplastic polymer,

wherein the cured fluorocarbon elastomer is present at a level of greater than or equal to 35% by weight based on the total weight of cured fluorocarbon elastomer and thermoplastic material,

wherein the cured fluorocarbon elastomer comprises repeating units derived from vinylidene fluoride and hexafluoropropylene, and

wherein the thermoplastic polymer comprises a semi-crystalline material having a melting point greater than or equal to 150°C.

110. (new) A composition according to claim 109, wherein the thermoplastic material comprises a polyamide.

111. (new) A composition according to claim 109, wherein the thermoplastic material comprises an aromatic polyamide.

112. (new) A composition according to claim 109, wherein the thermoplastic material comprises nylon 66.

113. (new) A composition according to claim 109, wherein the thermoplastic material comprises nylon 6.

114. (new) A composition according to claim 109, wherein the thermoplastic material comprises a polyester.

115. (new) A composition according to claim 109, wherein the thermoplastic material comprises polyethylene terephthalate.

116. (new) A composition according to claim 109, wherein the thermoplastic material comprises polybutylene terephthalate.

117. (new) A composition according to claim 109, wherein the thermoplastic material comprises a polyamide block and a polyether block.

118. (new) A composition according to claim 109, wherein the thermoplastic material comprises a polyester block and a polyether block.

119. (new) A processable rubber composition comprising a cured fluorocarbon elastomer dispersed in a matrix comprising a thermoplastic material,

wherein the thermoplastic material comprises a non-fluorine containing thermoplastic polymer,

wherein the cured fluorocarbon elastomer is present at a level of greater than or equal to 35% by weight based on the total weight of cured fluorocarbon elastomer and thermoplastic material,

wherein the fluorocarbon elastomer comprises repeating units derived from tetrafluoroethylene and perfluoroalkyl vinyl ethers,

wherein the perfluoroalkyl vinyl ether contains 1 to 6 carbons per perfluoroalkyl group, and

wherein the thermoplastic polymer comprises an amorphous material having a glass transition temperature greater than or equal to 150°C.

120. (new) A processable rubber composition comprising a cured fluorocarbon elastomer dispersed in a matrix comprising a thermoplastic material,

wherein the thermoplastic material comprises a non-fluorine containing thermoplastic polymer,

wherein the cured fluorocarbon elastomer is present at a level of greater than or equal to 35% by weight based on the total weight of cured fluorocarbon elastomer and thermoplastic material,

wherein the fluorocarbon elastomer comprises repeating units derived from tetrafluoroethylene and perfluoroalkyl vinyl ethers,

wherein the perfluoroalkyl vinyl ether contains 1 to 6 carbons per perfluoroalkyl group, and

wherein the thermoplastic polymer comprises a semi-crystalline material having a melting point greater than 150°C.

121. (new) A composition according to claim 120, wherein the thermoplastic material comprises a polyamide.

122. (new) A composition according to claim 120, wherein the thermoplastic material comprises an aromatic polyamide.

123. (new) A composition according to claim 120, wherein the thermoplastic material comprises nylon 66.

124. (new) A composition according to claim 120, wherein the thermoplastic material comprises nylon 6.

125. (new) A composition according to claim 120, wherein the thermoplastic material comprises a polyester.

126. (new) A composition according to claim 120, wherein the thermoplastic material comprises polyethylene terephthalate.

127. (new) A composition according to claim 120, wherein the thermoplastic material comprises polybutylene terephthalate.

128. (new) A composition according to claim 120, wherein the thermoplastic material comprises a polyamide block and a polyether block.

129. (new) A composition according to claim 120, wherein the thermoplastic material comprises a polyester block and a polyether block.